

Product datasheet for RC207512

Glycoprotein 2 (GP2) (NM_001007242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glycoprotein 2 (GP2) (NM_001007242) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glycoprotein 2
Synonyms:	ZAP75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207512 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGGATGGTGGGCTCTGGCCTCTGTGGCTGGCCTTGGTCTCCTGCATTCTGACCCAGGCATCTG
CAGTGCAGCGAGACCCATCCACTGTGGAGGACAAGTGTGAGAAGGCCTGCCGCCCGAGGAGAGTGCC
TGCCCTCAACAGCACCTGGGGCTGTTTCTGCAGACAGGACCTCAATAGTTCTGATGTCCACAGTTTGCAG
CCTCAGCTAGACTGTGGGCCAGGGAGATCAAGGTGAAGGTGGACAAATGTTTCTGGGAGGCTGGTT
TGGGGGAGGAGGTCATTGCCTACCTGCGAGACCCAACTGCAGCAGCATCTTGCAGACAGAGGAGAGGAA
CTGGGTATCTGTGACCAGCCCGTCCAGGCTAGTGCCTGCAGGAACATTCTGGAGAGAAATCAAACCCAT
GCCATCTACAAAAACACCTCTCCTTGGTCAATGATTTTCATCATCAGAGACACCATCCTCAACATCAACT
TCCAATGTGCCTACCCACTGGACATGAAAGTCAGCCTCCAAGCTGCCTTGCGACCCATTGTAAGTTCCCT
GAACGTCAAGTGTGGACGGGAATGGAGAGTTCAATTGTCAGGATGGCCCTTCCAAGACCAGAACTACACG
AATCCTTACCAAGGGGATGCAGTTGAACTGTCTGTTGAGTCCGTGCTGTATGTGGGTGCCATCTTGGAA
AAGGGACACCTCCCGGTTTAACTGGTGTGAGGAAGTCTATGCCACCCCACTGAAGACAAGGCTGA
CCTTGTGAAGTATTTTCATCATCAGAAACAGCTGCTCAAATCAACGTGATCCACCATCCAGTGGAGGAG
AATGGGCAGTCCCTCGAAAGCCGGTTCTCAGTTCAGATGTTTCATGTTTGGCTGGACATTATGACCTAGTT
TCCTGCATTGTGAGATTCATCTCTGTGATTCTCTTAATGAACAGTGCCAGCCTTCTTGCTCAAGAAGTCA
AGTCCGCAGTGAAGTACCGCCATCGACCTAGCCCGGTTCTAGATTTGGGGCCATCACTCGGAGAGGT
GCACAGTCTCCCGGTGCATGAATGGAACCCCTAGCACTGCAGGGTTCCTGGTGGCTGGCCTATGGTCC
TCCTGACTGTCTCTGGCTTGGCTGTTT

ACCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207512 protein sequence
Red=Cloning site Green=Tags(s)

MERMVGSGLLWLALVSCILTQASAVQRPSTVEDKCEKACRPEEECLALNSTWGCFCRQDLNSSDVHSLQ
 PQLDCGPRIKVKVDKCLLGGGLGEEVIAYLRDPNCSSILQTEERNWVSVTSPVQASACRNILERNQTH
 AIYKNTLSLVNDFIIRDITILNINFQCAIPLDMKVSLQAALQPIVSSLNVSVDGNGEFIVRMALFQDQNYT
 NPYQGDVELSVESVLYVGAILEQGDTSRFNLVLRNCYATPTEDKADLVKYFIIIRNSCSNQRDSTIHVEE
 NGQSSSRFSVQMFAGHYDLVFLHCEIHLCDSLNEQCQPCSRSRQVREVPAILARVLDLGPITRRG
 AQSPGVMNGTPSTAGFLVAWPMVLLTVLLAWLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6336_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001007242

ORF Size: 1149 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq Size: 1998 bp

RefSeq ORF: 1164 bp

Locus ID: 2813

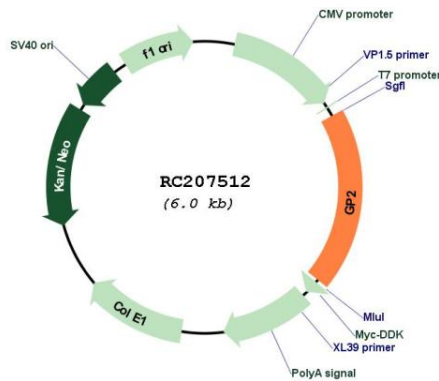
Cytogenetics: 16p12.3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

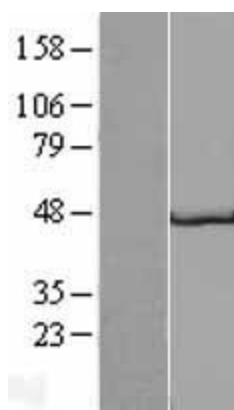
MW: 42.6 kDa

Gene Summary: This gene encodes an integral membrane protein that is secreted from intracellular zymogen granules and associates with the plasma membrane via glycosylphosphatidylinositol (GPI) linkage. The encoded protein binds pathogens such as enterobacteria, thereby playing an important role in the innate immune response. The C-terminus of this protein is related to the C-terminus of the protein encoded by the neighboring gene, uromodulin (UMOD). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

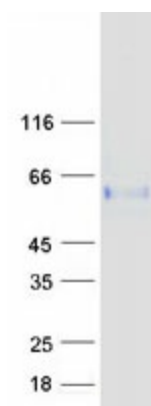
Product images:



Circular map for RC207512



Western blot validation of overexpression lysate (Cat# [LY423464]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207512 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GP2 protein (Cat# [TP307512]). The protein was produced from HEK293T cells transfected with GP2 cDNA clone (Cat# RC207512) using MegaTran 2.0 (Cat# [TT210002]).